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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/228,101	01/11/1999	VOLKMAR SCHROTH		7309

7590 01/02/2004

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Reston, VA 20195

EXAMINER

HARPER, KEVIN C

ART UNIT	PAPER NUMBER
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2666

12

DATE MAILED: 01/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

TS

Office Action Summary

Application No.

09/228,101

Applicant(s)

SCHROTH, VOLKMAR

Examiner

Kevin C. Harper

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2 and 4-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2 and 4-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

Response to Arguments

Applicant's arguments with respect to claims 2 and 4-6 have been considered but are moot in view of the new ground(s) of rejection. The indicated allowability of claims 2 and 4-5 are withdrawn in view of the newly discovered reference(s) to Okamoto et al. (US 6,094,442). Rejections based on the newly cited reference(s) follow.

Specification

1. The abstract of the disclosure is objected to because it uses legal phraseology ("means") in lines 4, 7 and 9. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (US 5,940,456) in view of Jean-Claude (US 4,542,500) or Humphrey et al. (US 6,396,853), and Okamoto et al. (US 6,094,442).

2. Regarding claim 2, Chen discloses a circuit arrangement for an SDH transmission system for transmitting plesiochronous signals (Figure 4). The circuit comprises a clock synchronizer (items 502-505; col. 6, lines 2-12) for receiving the plesiochronous signals through several input channels and for adapting the received plesiochronous signals to a common processing clock (item 510). The circuit also comprises an inherent reception multiplexer (note: synchronized signals adapted to a common clock are provided at a multiplexed output of PDH 502-505) and a reception

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processing means (item 508) connected at the output of the reception multiplexer for transforming a plesiochronous signal in to a synchronous signal for an SDH transmission channel (col. 6, lines 8-10). However, Chen does not disclose that the clock synchronizer has several buffer memories corresponding to each input channel for writing plesiochronous signals with their respective clocks and reading out the signals with a synchronous clock. Humphrey and Jean-Claude each disclose a clock synchronizer having several buffer memories for reading in plesiochronous signals with their respective clocks and reading out the signals with a synchronous clock (Humphrey, Figure 6, item 101; col. 8, lines 9-16; Jean-Claude, Figure 1, items 1-4; col. 3, lines 52-60). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to adapt plesiochronous signals to a common clock using buffers in the invention of Chen in order to avoid losing data while adapting the input signals to a different clock. Further, Chen in view of Jean-Claude or Humphrey does not disclose a demultiplexer following the reception processing means. Okamoto discloses an demultiplexer for an SDH signal (Figure 8, item 131). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a demultiplexer following a reception processing means in the invention of Chen in view of Jean-Claude or Humphrey in order to further multiplex the SDH signal and simplify the routing of the further multiplexed SDH signal (Okamoto, col. 6, lines 41-60; col. 8, lines 55-62).

3. Regarding claim 6, the reception processing means of Chen comprises an inherent synchronizer and mapper for equalizing the bit rates of the plesiochronous signal and mapping the equalized plesiochronous signal to provide the synchronous signal (col. 6, lines 8-12 and lines 55-62; col. 7, lines 24-40; note: a mapped plesiochronous signal is able to be recovered from the synchronous signal).

Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. (US 5,940,456) in view of Okamoto et al. (US 6,094,442).

4. Regarding claim 4, Chen discloses a circuit arrangement for a transmission part of an SDH transmission system for transmitting plesiochronous signals (Figure 4, item 500; abstract). The arrangement comprises a processing means (item 508 and 510) for transforming transmitted synchronous signal in to a plesiochronous signal and a desynchronizer (items 502-505) for recovery of plesiochronous signal clocks and to issue the plesiochronous signals to several output channels (col. 4, lines 39-44; col. 5, lines 58-65). However, Chen does not disclose a transmission multiplexer with an output coupled to the transmission processing means. Okamoto discloses a transmission multiplexer (Figure 14, items 921) for outputting an SDH signal. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have the transmission processing means of Chen to follow a transmission multiplexer in order to recover a single SDH signal from a larger multiplexed SDH signal (Okamoto, col. 10, lines 37-53).

5. Regarding claim 5, in Chen the transmission processing means (item 508) is connected to an inherent demultiplexer in the desynchronizer (any of items 502-505).

Conclusion

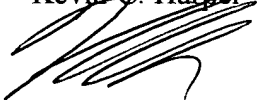
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 703-305-0139. The examiner can normally be reached weekdays, except Wednesday, from 9:30 AM to 8:00 PM ET.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 703-308-5463. The centralized fax number for the Patent Office is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office for TC 2600 at 703-306-0377.

Kevin C. Harper



December 24, 2002

Seema S. Rao
SEEMA S. RAO 12/29/03
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600